

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	fuhwei near lwo.in.	US-PGPUB; USPAT	OR	ON	2007/04/02 08:39
S2	0	fuh near wei near lwo.in.	US-PGPUB; USPAT	OR	ON	2007/04/02 08:39
S3	68877	(ibm or "international business machines").as.	US-PGPUB; USPAT	OR	ON	2007/04/02 08:39
S4	68	S3 and (java and (api or (application adj program\$4 adj interface))).clm.	US-PGPUB; USPAT	OR	ON	2007/04/02 08:56
S5	6	("20020144018" "20030028549" "20030097650" "20030110313" "20030126310" "6591417").PN.	US-PGPUB; USPAT	OR	ON	2007/04/02 08:56
S6	960	717/120-123.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:02
S7	1505	719/328-329.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:02
S8	52	(S6 or S7) and (compar\$4 with (api or (application adj program\$4 adj interface)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:03
S9	47	S8 and (@pd<"20040220" or @ad<"20040220" or @prad<"20040220" or @rlad<"20040220")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44
S10	105	match\$4 near3 (class adj name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:10

EAST Search History

S11	43	S10 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:10
S12	32	S11 and (@pd<"20040220" or @ad<"20040220" or @prad<"20040220" or @rlad<"20040220")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:23
S13	1791	compar\$4 with (api or (application adj program\$4 adj interface))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:28
S14	26	S13 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:28
S15	58	("20020040936" "5022028" "5313616" "5408665" "5446901" "5490249" "5565316" "5613101" "5615137" "5652835" "5668999" "5701408" "5748964" "5761510" "5884316" "5925140" "5966702" "5974255" "5999731" "6002871" "6005942" "6011918" "6038378" "6052732" "6058393" "6067639" "6075940" "6092147" "6125442" "6138112" "6178504" "6182158" "6202070" "6205579" "6212633" "6230312" "6230314" "6230318" "6243859" "6247171" "6262492" "6272674" "6347398" "6349344" "6360334" "6370686" "6389467" "6405309" "6418554" "6425118" "6477666" "6477702" "6519767" "6526571" "6539539" "6549930" "6668289" "RE37722").PN.	OR	ON	2007/04/02 09:32	

EAST Search History

S16	11	matching adj class adj names	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:43
S17	82	compar\$4 with (class adj name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:47
S18	6	S17 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:45
S19	5664	compar\$4 near3 class	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:47
S20	79	S19 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:47
S21	69	S20 and (@pd<"20040220" or @ad<"20040220" or @prad<"20040220" or @rlad<"20040220")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 09:47
S22	11	("5404525" "5535389" "5574898" "5890176" "6141795" "6175855" "6182286" "6209128" "6216140" "6289509" "6289510").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/02 10:00
S23	304	((class adj name) near3 "same") or ((match\$4 or identical) near3 (class adj name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 10:16

EAST Search History

S24	30	S23 and java and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 10:16
S25	6	("20020133643" "5966702" "6430569" "6618769" "6618855" "6654793").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/02 11:26
S26	39	(remov\$4 or delet\$4) near3 (class adj name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:08
S27	367680	(remov\$4 or delet\$4) near3 (method or function or procedure)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:55
S28	1962	(remov\$4 or delet\$4) near3 (("same" or identical) near (method or function or procedure))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:57
S29	0	S28 and java and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:56
S30	0	S28 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:56
S31	22	S28 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:56
S32	6388	(remov\$4 or delet\$4) with (("same" or identical) adj (method or function or procedure))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:58

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S33	0	S32 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:58
S34	54	S32 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 13:58
S35	3	S28 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:04
S36	3	(remov\$4 or delet\$4) near3 ((match\$4 or "same" or identical) adj (class adj name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:10
S37	6	(remov\$4 or delet\$4) with ((match\$4 or "same" or identical) adj (class adj name))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:29
S38	50	("20060249436" "6042312" "4299496" "5475797" "5912028" "6035243" "7035003" "20050122578" "20060174719" "5753092" "4379503" "4949031" "5749481" "6167817" "4591991" "4922978" "5674557" "5831857" "5849222" "5903663" "6438323" "6835290" "20030150712" "20050132853" "4787814" "4884474" "4991463" "5431332" "5679054" "6687328" "20030039332" "5199158" RE35481 "6237509" H002073 "5205197" "5544694" "5942699" "3670905" "4248563" "4304521" "4491475" "4536119" "4632620" "4807777" "4825500" "4863340" "4883140" "5249131" "5293322").pn.	US-PGPUB; USPAT	OR	ON	2007/04/02 14:13

EAST Search History

S39	6537	(remov\$4 or delet\$4) with ((match\$4 or "same" or identical) adj (method or function or procedure))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:29
S40	58	S39 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:33
S41	19	S39 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:33
S42	102	S39 and api	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 14:39
S43	1063	(report or summary) with api	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:21
S44	4	(report or summary) with (modif\$4 near3 api)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:30
S45	1063	(report or summary) with api	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:30
S46	52	S45 and "717".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/02 15:30

EAST Search History

S47	9	(US-20030110313-\$ or US-20040153827-\$ or US-20040230948-\$).did. or (US-6591417-\$ or US-6308182-\$ or US-6986132-\$ or US-6415435-\$ or US-6851111-\$ or US-6430564-\$). did.	US-PGPUB; USPAT	OR	ON	2007/04/03 07:17
S48	1	S47 and (class near path)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:17
S49	433	class adj path	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44
S50	244	S49 and java	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44
S51	105	S50 and jym	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44
S52	47	S51 and byte\$1code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44
S53	45	S52 and (@pd<"20040220" or @ad<"20040220" or @prad<"20040220" or @rlad<"20040220")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/04/03 07:44



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1 [Multimedia and graphics: ZR: a 3D API transparent technology for chunk rendering](#)

Emile Hsieh, Vladimir Pentkovski, Thomas Piazza

 December 2001 **Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture MICRO 34**

Publisher: IEEE Computer Society

Full text available: [pdf\(765.52 KB\)](#)[Publisher Site](#)Additional Information: [full citation](#), [abstract](#), [references](#)

This paper presents ZR (Zone Rendering), a 3D graphics technology that addresses ever-increasing bandwidth requirements using chunk rendering technique, and at the same time solves 3D API compatibility issues commonly associated with chunk rendering graphics devices. We apply a pipeline serialization technique to handle the cases causing compatibility issues. However, excessive frequency of serializations may offset the performance advantage of ZR. In order to manage potential performance problem ...

2 [IR-6 \(information retrieval\): digital libraries: CiteSeer-API: towards seamless resource location and interlinking for digital libraries](#)

Yves Petinot, C. Lee Giles, Vivek Bhatnagar, Pradeep B. Teregowda, Hui Han, Isaac Council

November 2004 **Proceedings of the thirteenth ACM international conference on****Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: [pdf\(271.17 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce CiteSeer-API, a public API to CiteSeer-like services. CiteSeer-API is SOAP/WSDL based and allows for easy programmatical access to all the specific functionalities offered by CiteSeer services, including full text search of documents and citations and citation-based document discovery. In order to enable operability and interlinking with arbitrary software agents and digital library systems, CiteSeer-API uses digital content signatures to create system-independent handles for the ...

Keywords: citeceer-API, citeseer, digital libraries, interfaces, interlink, interoperability, semantic web, services


3 [Release-to-release binary compatibility in SOM](#)

Ira R. Forman, Michael H. Conner, Scott H. Danforth, Larry K. Raper

 October 1995 **ACM SIGPLAN Notices , Proceedings of the tenth annual conference on Object-oriented programming systems, languages, and applications OOPSLA '95**, Volume 30 Issue 10

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(1.66 MB\)](#)[terms](#)

SOM (IBM's System Object Model) removes a major impediment to reuse in Object-Oriented Programming by facilitating the programming of release-to-release binary compatible class libraries. This is accomplished by supporting a large number of compatibility preserving transformations. Taken together these transformations compose a discipline for programming evolving class libraries.

4 Industrial practice I: Jena: implementing the semantic web recommendations



Jeremy J. Carroll, Ian Dickinson, Chris Dollin, Dave Reynolds, Andy Seaborne, Kevin Wilkinson

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters WWW Alt. '04**

Publisher: ACM Press

Full text available:  [pdf\(139.86 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The new Semantic Web recommendations for RDF, RDFS and OWL have; at their heart, the RDF graph. Jena2, a second-generation RDF toolkit, is similarly centered on the RDF graph. RDFS and OWL reasoning are seen as graph-to-graph transforms, producing graphs of virtual triples. Rich APIs are provided. The Model API includes support for other aspects of the RDF recommendations, such as containers and reification. The Ontology API includes support for RDFS and OWL, including advanced OWL Full support. ...

Keywords: Jena, OWL, RDF, RDQL, semantic web

5 API documentation from source code comments: a case study of Javadoc



Douglas Kramer

October 1999 **Proceedings of the 17th annual international conference on Computer documentation SIGDOC '99**

Publisher: ACM Press

Full text available:  [pdf\(866.34 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes in a general way the process we went through to determine the goals, principles, audience, content and style for writing comments in source code for the Java platform at the Java Software division of Sun Microsystems. This includes how the documentation comments evolved to become the home of the Java platform API specification, and the guidelines we developed to make it practical for this document to reside in the same files as the source code.

Keywords: API documentation, Java platform, Javadoc, doc comments, doclets, documentation comments, generated documentation, source code comments

6 Doctoral symposium: presentations: Refactoring-aware version control



Tammo Freese

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**


Publisher: ACM Press

Full text available:  [pdf\(180.54 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, refactorings are supported in some integrated development environments (IDEs). The refactoring operations can only work correctly if all source code that needs to be changed is available to the IDE. However, this precondition neither holds for application programming interface (API) evolution, nor in team development. The research presented in this paper aims to support refactoring in API evolution and team development by extending IDE and version control to allow refactoring-aware merge ...

Keywords: application programming interface, eclipse, library, refactoring, software evolution, subversion, version control

7 Network externalities in software systems

 Giancarlo Succi, Paolo Predonzani, Andrea Valerio, Tullio Vernazza
December 1998 **StandardView**, Volume 6 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(313.98 KB\)](#) Additional Information: [full citation](#), [references](#)

8 The Story of OpenAL

Bernd Kreimeier
January 2001 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(21.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Kreimeier explores one of Loki's free software projects.

9 The Direct3D 10 system

 David Blythe
July 2006 **ACM Transactions on Graphics (TOG) , ACM SIGGRAPH 2006 Papers SIGGRAPH '06**, Volume 25 Issue 3


Publisher: ACM Press

Full text available:  [pdf\(377.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [mov\(23:56 MIN\)](#)

We present a system architecture for the 4th generation of PC-class programmable graphics processing units (GPUs). The new pipeline features significant additions and changes to the prior generation pipeline including a new programmable stage capable of generating additional primitives and streaming primitive data to memory, an expanded, common feature set for all of the programmable stages, generalizations to vertex and image memory resources, and new storage formats. We also describe ...

Keywords: graphics systems, programmable graphics hardware, programmable shading

10 Interchange and interoperability: Enabling interoperability for autonomous digital libraries: an API to citeseer services

 Yves Petinot, Clyde Lee Giles, Vivek Bhatnagar, Pradeep B. Teregowda, Hui Han
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JCDL '04**

Publisher: ACM Press

Full text available:  [pdf\(174.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce CiteSeer-API, a public API to CiteSeer-like services. CiteSeer-API is SOAP/WSDL based and allows for easy programmatic access to all the specific functionalities offered by CiteSeer services, including full text search of documents and citations and citation--based document discovery. CiteSeer-API is currently showcased on SMEALSearch [10], a digital library search engine for business academic publications.

Keywords: API, citeseer, digital libraries, soap, wsdl

11 Extending the APL character set

 James A. Brown, Brent Hawks, Ray Trimble
September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL APL '93**, Volume 24 Issue 1

Publisher: ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(503.94 KB\)](#)[terms](#)

APL is often presented as a notation that is independent of national language because of its symbolic nature. Paradoxically its unique character set has led to APL being treated as if it were itself a national language. This has meant, in many practical situations, that the APL character set is incompatible with national language character sets. IBM's APL2 attempted to avoid these problems by defining a set of extended (31 bit) characters, and this has indeed been helpful in handling Asian language ...

12 Pomegranate: a fully scalable graphics architecture



Matthew Eldridge, Homan Igehy, Pat Hanrahan


July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques SIGGRAPH '00****Publisher:** ACM Press/Addison-Wesley Publishing Co.Full text available:  [pdf\(508.39 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Pomegranate is a parallel hardware architecture for polygon rendering that provides scalable input bandwidth, triangle rate, pixel rate, texture memory and display bandwidth while maintaining an immediate-mode interface. The basic unit of scalability is a single graphics pipeline, and up to 64 such units may be combined. Pomegranate's scalability is achieved with a novel "sort-everywhere" architecture that distributes work in a balanced fashion at every stage of the pipeline, ke ...

Keywords: graphics hardware, parallel computing

13 Using PARLAY APIs over a SIP system in a distributed service platform for carrier grade multimedia services

Rudolf Pailer, Johannes Stadler, Igor Miladinovic

July 2003 **Wireless Networks**, Volume 9 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [pdf\(1.19 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added services ...

Keywords: SIP-Parlay mapping, caller preferences, carrier grade services, network-independent services, service platform

14 A service framework for carrier grade multimedia services using PARLAY APIs over a SIP system



Rudolf Pailer, Johannes Stadler

July 2001 **Proceedings of the first workshop on Wireless mobile internet WMI '01****Publisher:** ACM PressFull text available:  [pdf\(713.19 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added s ...

Keywords: SIR-PARLAY mapping, caller preferences, carrier grade services, network-

independent services, service platform

15 Planning for OS/2 support



Cathy Leffler

December 1989 **ACM SIGUCCS Newsletter**, Volume 19 Issue 4

Publisher: ACM Press

Full text available: [pdf\(704.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Whether we plan for it or not, there is little doubt that the OS/2 operating system will be one of many significant new elements in the diverse computing environments on university and college campuses. As user services professionals, we must help our constituents make educated decisions as to whether or not they will migrate to OS/2, and when they should do so. We must then be prepared to help them make a smooth transition to this new computing environment.

16 Advanced control flow in Java card programming



Peng Li, Steve Zdancewic

June 2004 **ACM SIGPLAN Notices , Proceedings of the 2004 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '04**, Volume 39 Issue 7

Publisher: ACM Press

Full text available: [pdf\(205.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Java Card technology simplifies the development of smart card applications by providing a high-level programming language similar to Java. However, the master-slave programming model used in current Java Card platform creates control flow difficulties when writing complex card programs, making it inconvenient, tedious, and error-prone to implement Java Card applications. This paper examines these drawbacks of the master-slave model and proposes a concurrent thread model for developing future Jav ...

Keywords: CPS, Java card, continuation, control flow, smart card, trampolined style

17 Spatial displays and computer graphics: Volumetric displays & implementation experience



Joshua Napoli

July 2005 **ACM SIGGRAPH 2005 Courses SIGGRAPH '05**

Publisher: ACM Press

Full text available: [pdf\(242.34 KB\)](#) Additional Information: [full citation](#)

18 PolyD: a flexible dispatching framework



Antonio Cuneo, Jan Vitek

October 2005 **ACM SIGPLAN Notices , Proceedings of the 20th annual ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '05**, Volume 40 Issue 10

Publisher: ACM Press

Full text available: [pdf\(1.70 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The standard dispatching mechanisms built into programming languages are sometimes inadequate to the needs of the programmer. In the case of Java, the need for more flexibility has led to the development of a number of tools, including visitors and multi-method extensions, that each add some particular functionality, but lack the generality necessary to support user-defined dispatching mechanisms. In this paper we advocate a more modular approach to dispatching, and we present a tool, PolyD, tha ...

Keywords: Java, dispatching, multimethods, visitor pattern

19 A user's guide to ALSA

Dave Phillips

August 2005 **Linux Journal**, Volume 2005 Issue 136**Publisher:** Specialized Systems Consultants, Inc.Full text available:  [html\(37.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Understand how the 2.6 kernel handles audio, and unleash the synthesizer and mixer inside your sound card.

20 A new idiom recognition framework for exploiting hardware-assist instructions

Motohiro Kawahito, Hideaki Komatsu, Takao Moriyama, Hiroshi Inoue, Toshio Nakatani

October 2006 **ACM SIGOPS Operating Systems Review**, **ACM SIGPLAN Notices**, **ACM SIGARCH Computer Architecture News**, **Proceedings of the 12th international conference on Architectural support for programming languages and operating systems ASPLOS-XII**, Volume 40, 41, 34 Issue 5, 11, 5**Publisher:** ACM PressFull text available:  [pdf\(383.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)





Modern processors support hardware-assist instructions (such as TRT and TROT instructions on IBM zSeries) to accelerate certain functions such as delimiter search and character conversion. Such special instructions have often been used in high performance libraries, but they have not been exploited well in optimizing compilers except for some limited cases. We propose a new idiom recognition technique derived from a topological embedding algorithm [4] to detect idiom patterns in the input progra ...

Keywords: JIT, VMX, hardware-assist instructions, idiom recognition, java, topological embedding

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